



Docket No. 219.40241X00

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Ajit V. SATHE *et al.*

Serial No.: 09/893,466

Filed: 29 June 2001

For: ARRANGEMENTS TO PROVIDE MECHANICAL STIFFENING
ELEMENTS TO A THIN-CORE OR CORELESS SUBSTRATE

Art Unit: 2872

Examiner: Ishwarbhai B. Patel

Conf. No.: 5280

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REQUEST FOR CORRECTED ADVISORY ACTION

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Commissioner for Patents
POB 1450
Alexandria, VA 22313-1450

19 June 2003

Sir:

Attached hereto is a precise copy of an Advisory Action as received by Applicant in connection with the above-identified application. Applicant submits that, in accordance with MPEP §714.13, the Advisory Action mailed 3 June 2003 is defective for the following reasons.

Applicant's Amendment under §116 filed 19 March 2003 only presented clarified Claims 53-64 which had been amended to overcome an informality in their proper dependency as raised by the Examiner in the 19 December Office Action. No other amendments to the claims were made. Therefore, Applicant considers such Amendment to, at the very least, place the application in better form for appeal as well as to adopt the Examiner's suggestions regarding the dependency of the claims.

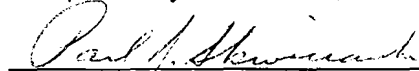
Item 5 in the Advisory Action indicates that a "request for reconsideration" was filed, but there is no indication given anywhere in the Advisory Action that an

amendment to the claims was made, nor that such Amendment was entered or, if not, the reasons for non-entry. Moreover, no indication of the status of the pending claims and each rejection made is given in the event that appeal is taken, nor which individual rejection in the 19 December Action would be used to reject the claims amended in Applicant's 19 March Amendment.

Furthermore, as shown on the attached precise copy of the Advisory Action as received by Applicant, Page 2 of Applicant's copy is at such an angle as to lose part of many of the statements made on the page, and therefore, Applicant is not certain how the statements should read. Applicant also respectfully submits that, in view of the fact that such statements appear to be merely rebuttal by the Examiner of Applicant's arguments for patentability made in the Amendment, Applicant reserves all rights to address all statements or allegations of what is shown by the prior art or any new arguments or prior art which are made by the Examiner on page 2 of the Advisory Action in lieu of grounds for non-entry of Applicant's 19 March Amendment.

For the reasons given above, Applicant respectfully submits that the Advisory Action mailed 3 June 2003 is defective, and requests that such Advisory Action be withdrawn and a new Action be mailed which indicates the information required under MPEP §714.13 and needed by Applicant to prepare for the impending Appeal.

Respectfully submitted,



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ATTACHMENT:
Copy of 3 June 2003 Advisory Action



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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P.O. Box 1450
Alexandria, Virginia 22313-1450
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/893,466	06/29/2001	Ajit V. Sathe	219.40241X00	5280

20457 7590 06/03/2003

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EXAMINER

PATEL, ISHWARBHAI B

ART UNIT PAPER NUMBER

2827

DATE MAILED: 06/03/2003

219.40241X00

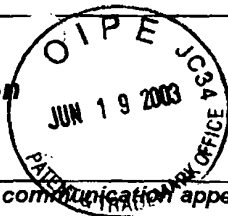
Please find below and/or attached an Office communication concerning this application or proceeding.

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P's IDS

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FILE

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Advisory Action

Application No.

09/893,466

Examiner

Ishwar (I. B.) Patel

Applicant(s)

SATHE, AJIT V.

Art Unit

2827

--The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

THE REPLY FILED FAILS TO PLACE THIS APPLICATION IN CONDITION FOR ALLOWANCE. Therefore, further action by the applicant is required to avoid abandonment of this application. A proper reply to a final rejection under 37 CFR 1.113 may only be either: (1) a timely filed amendment which places the application in condition for allowance; (2) a timely filed Notice of Appeal (with appeal fee); or (3) a timely filed Request for Continued Examination (RCE) in compliance with 37 CFR 1.114.

PERIOD FOR REPLY [check either a) or b)]

- a) ☒ The period for reply expires 6 months from the mailing date of the final rejection.
- b) ☐ The period for reply expires on: (1) the mailing date of this Advisory Action, or (2) the date set forth in the final rejection, whichever is later. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of the final rejection. ONLY CHECK THIS BOX WHEN THE FIRST REPLY WAS FILED WITHIN TWO MONTHS OF THE FINAL REJECTION. See MPEP 706.07(f).

Extensions of time may be obtained under 37 CFR 1.136(a). The date on which the petition under 37 CFR 1.136(a) and the appropriate extension fee have been filed is the date for purposes of determining the period of extension and the corresponding amount of the fee. The appropriate extension fee under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the shortened statutory period for reply originally set in the final Office action; or (2) as set forth in (b) above, if checked. Any reply received by the Office later than three months after the mailing date of the final rejection, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

1. ☐ A Notice of Appeal was filed on _____. Appellant's Brief must be filed within the period set forth in 37 CFR 1.192(a), or any extension thereof (37 CFR 1.191(d)), to avoid dismissal of the appeal.
2. ☐ The proposed amendment(s) will not be entered because:
- (a) ☐ they raise new issues that would require further consideration and/or search (see NOTE below);
 - (b) ☐ they raise the issue of new matter (see Note below);
 - (c) ☐ they are not deemed to place the application in better form for appeal by materially reducing or simplifying the issues for appeal; and/or
 - (d) ☐ they present additional claims without canceling a corresponding number of finally rejected claims.

NOTE: _____

3. ☐ Applicant's reply has overcome the following rejection(s): _____.
4. ☐ Newly proposed or amended claim(s) _____ would be allowable if submitted in a separate, timely filed amendment canceling the non-allowable claim(s).
5. ☒ The a) ☐ affidavit, b) ☐ exhibit, or c) ☒ request for reconsideration has been considered but does NOT place the application in condition for allowance because: See Continuation Sheet.
6. ☐ The affidavit or exhibit will NOT be considered because it is not directed SOLELY to issues which were newly raised by the Examiner in the final rejection.
7. ☐ For purposes of Appeal, the proposed amendment(s) a) ☐ will not be entered or b) ☐ will be entered and an explanation of how the new or amended claims would be rejected is provided below or appended.

The status of the claim(s) is (or will be) as follows:

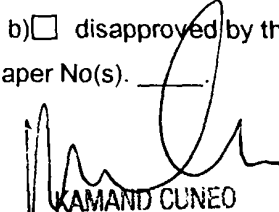
Claim(s) allowed: _____

Claim(s) objected to: _____

Claim(s) rejected: _____

Claim(s) withdrawn from consideration: _____

8. ☐ The proposed drawing correction filed on _____ is a) ☐ approved or b) ☐ disapproved by the Examiner.
9. ☐ Note the attached Information Disclosure Statement(s) (PTO-1449) Paper No(s). _____
10. ☐ Other: _____


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SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800

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Continuation of 5. does NOT place the application in condition for allowance because:

(a) Applicant's Argument: Lin not disclosing thin core / coreless substrate:

Lin discloses a substrate 14 and further discloses the suitable substrate can be of ceramic or PTFE (Teflon), or Polyamide tape, or FR4, Lin column 5, line 55-60. Polyamide, Teflon and other polymer tapes are well known in the interconnecting packaging industry. A thin substrate suitable for the specific requirement can be used. Even, the circuit board of Lin, if used with tape having metal pad on one side, will be considered as coreless substrate, used as "TAB", tape automated bonding.

(b) Applicant's Argument: Secondary reference of Ho, US Patent No. 6,287,890, not disclosing thin film:

Ho discloses an interconnect substrate 12 with which the chip is connected, and the dielectric film, either film laminated or a liquid film deposited, is of the order of 10 to 50 micrometer, which is a thin film, Ho, column 7, line 21-34, figure 1. Further, how the interconnect substrate is made is irrelevant as the chip is mounted on the interconnect substrate 12 and not on the metal substrate 14.

(c) Applicant's Argument: Related art of Ho, US Patent No. 6, 291,268, not disclosing thin film:

As explained above, the chip is mounted on the interconnect substrate, 12, wherein the dielectric layer thickness is between about 10 to 40 micrometer, see Ho, column 4, line 44-56.

(d) Few other prior arts disclosing the thin tapes used in the interconnecting packaging industry are added here for further reference only, not as prior arts.

(1) Hashimoto discloses a tape carrier, with a substrate using polyimide film of thickness 25 micrometer to 125 micrometer and further discloses that polyester film, glass epoxy film, polyamide film or a similar organic film may also be used, see Hashimoto column 6, line 49-55.

(2) Fjelstad discloses a thin polymer layer of polyamide, polyetherimide or polyimide with a thickness of 50 micron; see Fjelstad, column 6, line 9-20.

**NOTIFICATION OF REQUESTED NEW FORMAT FOR AMENDMENTS AND/OR RESPONSES FILED
IN ART UNITS 1634, 2827, AND 2834**

The United States Patent and Trademark Office (USPTO) is currently conducting a prototype of electronic application processing and examination in **Art Units 1634, 2827, and 2834**. To facilitate the prototype, the following changes in format for Amendments and/or Responses filed in those Art Units are requested.

Requested Format of Amendments and Responses during the prototype.

Each section of an Amendment and/or Response (e.g., Claim Amendments, Specification Amendments, Remarks) should begin on a separate sheet to facilitate separate indexing and scanning of the document. *For example*, in an Amendment containing a.) introductory comments, b.) amendments to the claims, c.) amendments to the specification, and d.) remarks, each of these sections should begin on a separate sheet. **For each amendment filed in Art Units 1634, 2827, and 2834, the requirement to provide two sets of claims (a clean version and a marked up version), as set forth in 37 CFR 1.121(c), will be waived where the following format is employed.**

Each amendment that includes a change to an existing claim, or submission of a new claim shall be made by submitting a summary document with the status of all claims and the text of all pending claims as follows:

- (1) The status of all of the claims in the application, including any previously canceled or withdrawn claims, must be summarized in each amendment document. Status is indicated by a parenthetical expression following the claim number (e.g. (original), (currently amended), (previously amended), (canceled), (withdrawn), or (new)). The text of all pending claims must be submitted each time any claim is amended. Canceled and withdrawn claims may be indicated by only the claim number and status.
- (2) All claims being currently amended must be submitted with markings to indicate the changes that have been made. The changes in any amended claim may be shown by strikethrough (for deleted matter) or underlining (for added matter), or by any equivalent marking system.
- (3) The text of pending claims not being amended must be presented in each amendment document in clean version, i.e., without any markings. Any claim presented in clean version will constitute an assertion that it has not been changed relative to the immediate prior version.
- (4) A claim may be canceled by merely providing an instruction to cancel. Any claims added by amendment must be indicated as (new).
- (5) All of the claims in each amendment paper must be presented in ascending numerical order. Consecutive canceled or withdrawn claims may be aggregated into one statement (e.g. Claims 1 – 5 (canceled)).

Amendments to the specification are performed in the conventional manner (37 CFR 1.121(b)).

Patent Copies

Additionally, applicants and practitioners will no longer be required to provide copies of U.S. Patents and Published U.S. Patent Applications cited in any Information Disclosure Statement (IDS) submitted to the USPTO during the prototype and in applications assigned to the three art units. It is requested that eIDSs be used to file all IDS papers for applications before the prototype Art Units. Similarly, during the prototype, copies of U.S. Patents and Published U.S. Patent Applications cited by an examiner during prosecution of an application will not be provided to applicants in Office actions from these Art Units. These documents are available from the USPTO web site, www.uspto.gov for free download. Cited foreign patents and published applications and non-patent literature will be mailed by conventional processing.

The above requested new format and procedures are applicable during the prototype only to applications assigned to Art Units 1634, 2827, and 2834. Any questions regarding these requirements may be directed to image.processing@uspto.gov or one of the Supervisory Patent Examiners of these Art Units 1634 – Gary.Jones@uspto.gov; 2827 – Dave.Talbott@uspto.gov or 2834 – Nestor.Ramirez@uspto.gov.